

I. Amendments to the Claims

Please amend the claims as follows with the following version of the claims in accordance with revised 37 CFR § 1.121.

1. (Currently Amended) A method for managing resources within a distributed data processing system, the method comprising:

receiving a request for an action at a target resource within the distributed data processing system, wherein completion of the action depends upon operations of a set of resources along a logical route through the distributed data processing system;

deriving a set of logical routes from a network topology mapping, wherein each logical route is a series of endpoints that comprise an endpoint-to-endpoint route for completing the requested action;

selecting the logical route, wherein the logical route does not include resources for which exclusive access has previously been granted;

in response to a determination that completion of the action requires that the set of resources operate at high levels of performance, securing operating conditions within the distributed data processing system for high levels of performance by the set of resources and the target resource; and

in response to securing high level performance conditions, granting the request for the action.

2. (Original) The method of claim 1 further comprising:  
rejecting a subsequent request for an action that requires operations on one of the resources in the set of resources.

3. (Original) The method of claim 1 further comprising:  
reserving exclusive access to the set of resources and the target resource.

4. (Original) The method of claim 3 further comprising:  
generating a restricted session identifier;  
associating the restricted session identifier with the  
granted action;

5 transmitting the restricted session identifier to gateways  
responsible for the set of resources, wherein gateways along the  
route permit exclusive access to the set of resources in  
accordance with the restricted session identifier associated with  
an action.

10

5. (Canceled).

6. (Canceled).

7. (Currently Amended) An apparatus for managing resources within a distributed data processing system, the apparatus comprising:

receiving means for receiving a request for an action at a target resource within the distributed data processing system, wherein completion of the action depends upon operations of a set of resources along a logical route through the distributed data processing system;

deriving means for deriving a set of logical routes from a network topology mapping, wherein each logical route is a series of endpoints that comprise an endpoint-to-endpoint route for completing the requested action;

selecting means for selecting the logical route, wherein the logical route does not include resources for which exclusive access has previously been granted;

securing means for securing, in response to a determination that completion of the action requires that the set of resources operate at high levels of performance, operating conditions within the distributed data processing system for high levels of performance by the set of resources and the target resource; and

granting means for granting, in response to securing high level performance conditions, the request for the action.

8. (Original) The apparatus of claim 7 further comprising:

rejecting means for rejecting a subsequent request for an action that requires operations on one of the resources in the set of resources.

9. (Original) The apparatus of claim 7 further comprising:

reserving means for reserving exclusive access to the set of resources and the target resource.

10. (Original) The apparatus of claim 9 further comprising:  
generating means for generating a restricted session  
identifier;

5 associating means for associating the restricted session  
identifier with the granted action;

transmitting means for transmitting the restricted session  
identifier to gateways responsible for the set of resources,  
wherein gateways along the route permit exclusive access to the  
set of resources in accordance with the restricted session  
10 identifier associated with an action.

11. (Canceled).

12. (Canceled).

13. (Currently Amended) A computer program product in a computer readable medium for use in a data processing system for managing resources within a distributed data processing system, the computer program product comprising:

5 instructions for receiving a request for an action at a target resource within the distributed data processing system, wherein completion of the action depends upon operations of a set of resources along a logical route through the distributed data processing system;

10 instructions for deriving a set of logical routes from a network topology mapping, wherein each logical route is a series of endpoints that comprise an endpoint-to-endpoint route for completing the requested action;

15 instructions for selecting the logical route, wherein the logical route does not include resources for which exclusive access has previously been granted;

20 instructions for securing, in response to a determination that completion of the action requires that the set of resources operate at high levels of performance, operating conditions within the distributed data processing system for high levels of performance by the set of resources and the target resource; and

instructions for granting, in response to securing high level performance conditions, the request for the action.

25 14. (Original) The computer program product of claim 13 further comprising:

instructions for rejecting a subsequent request for an action that requires operations on one of the resources in the set of resources.

15. (Original) The computer program product of claim 13 further comprising:

instructions for reserving exclusive access to the set of resources and the target resource.

5

16. (Original) The computer program product of claim 15 further comprising:

instructions for generating a restricted session identifier;

instructions for associating the restricted session

10 identifier with the granted action;

instructions for transmitting the restricted session identifier to gateways responsible for the set of resources, wherein gateways along the route permit exclusive access to the set of resources in accordance with the restricted session identifier associated with an action.

15

17. (Canceled).

18. (Canceled).